

Figure 1.

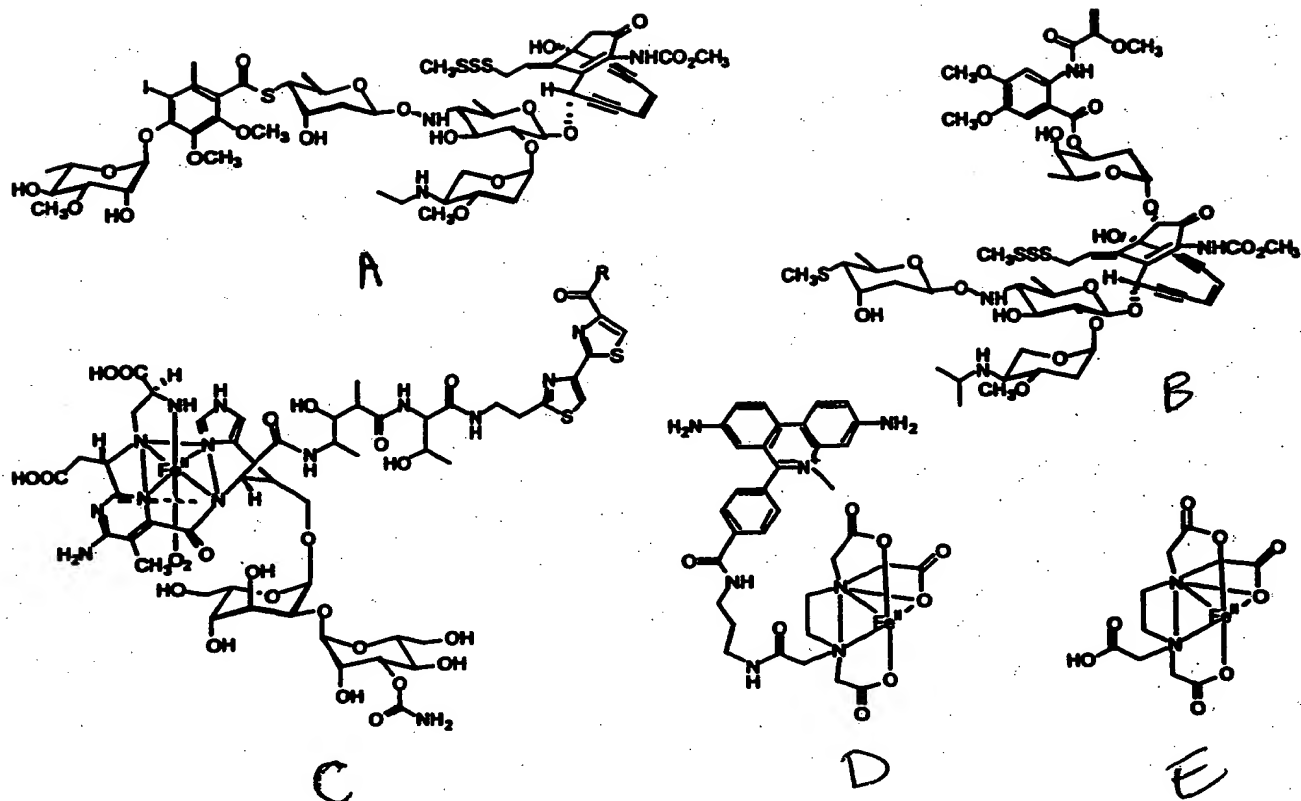
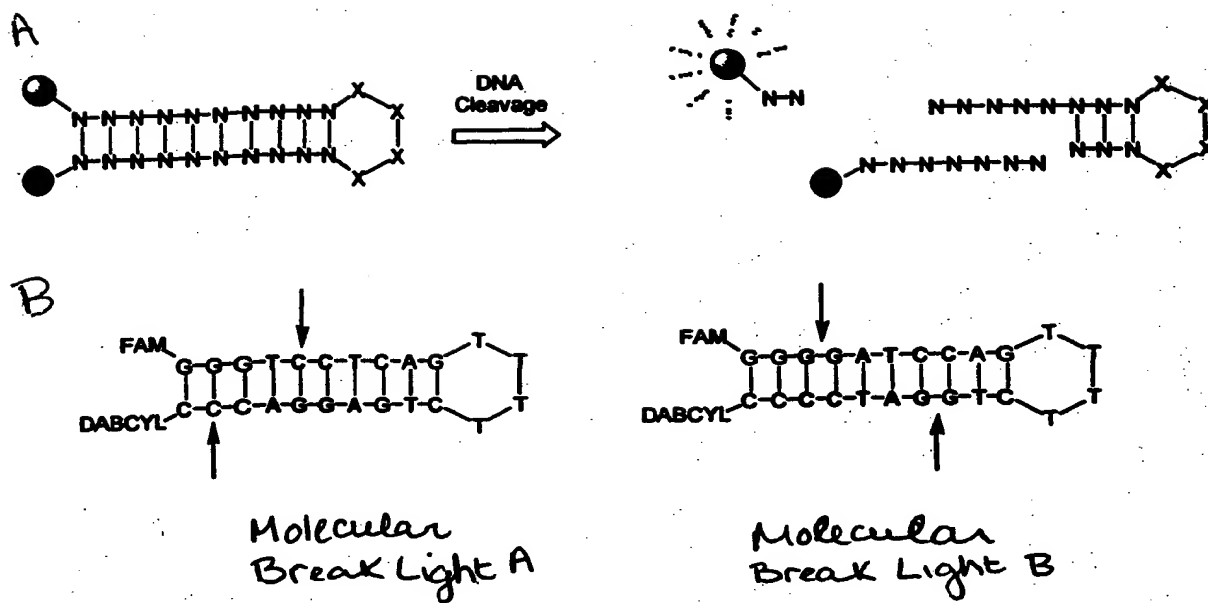


Figure 2.



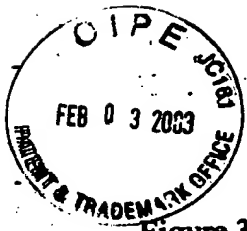


Figure 3.

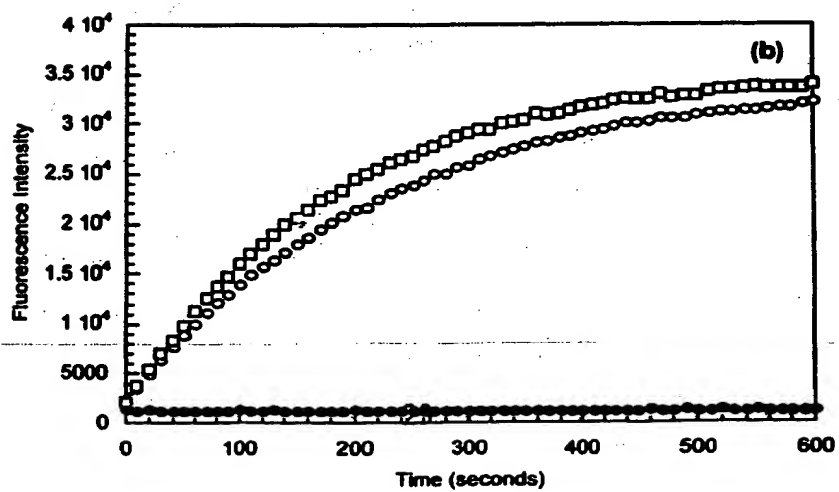
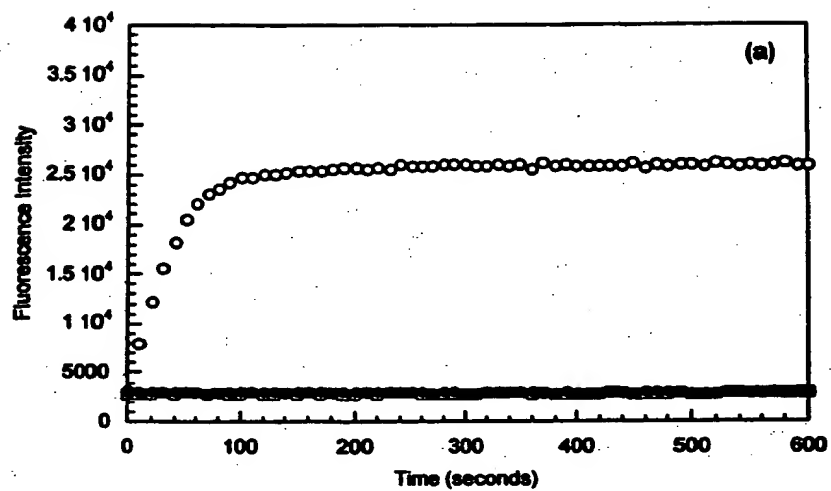
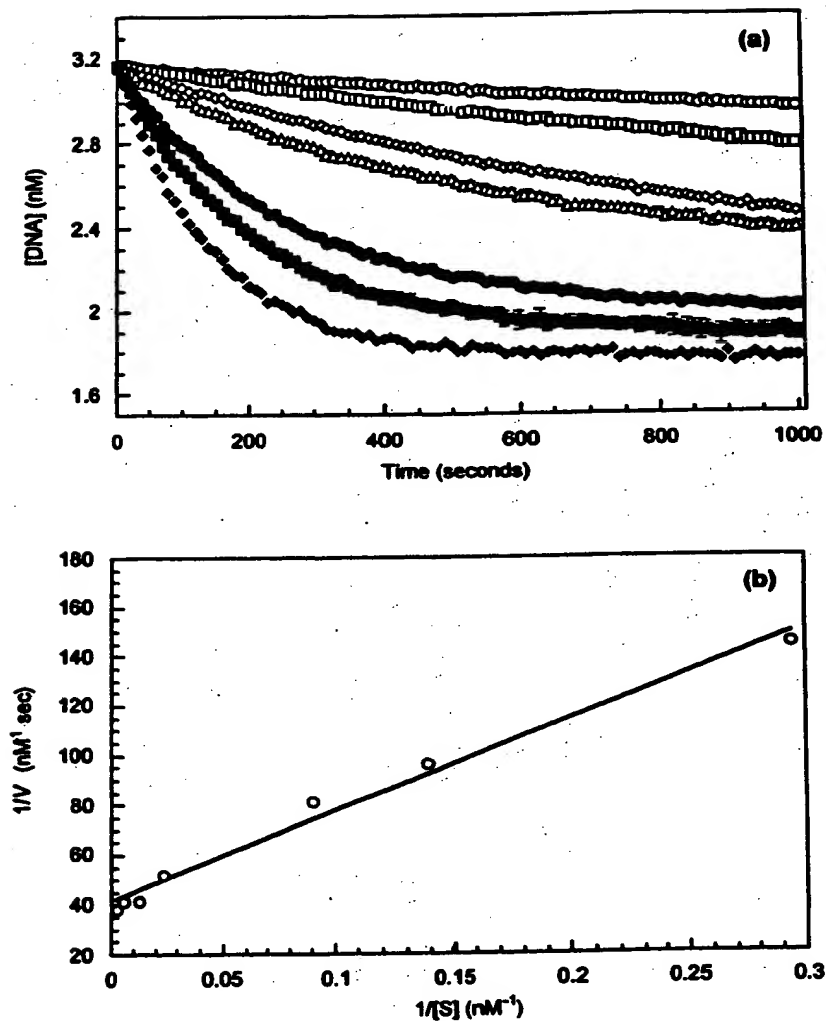




Figure 4.



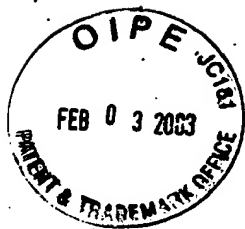


Figure 5A

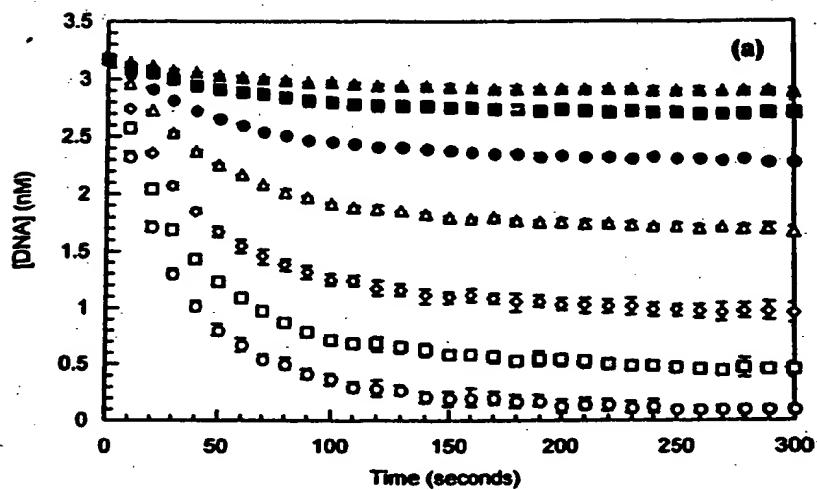
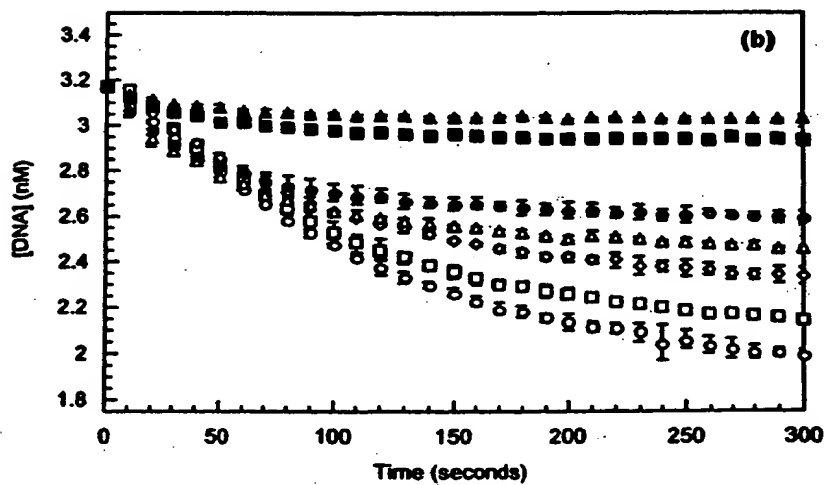


Figure 5B



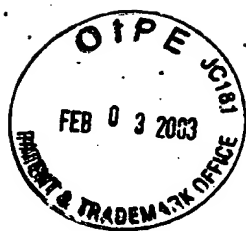
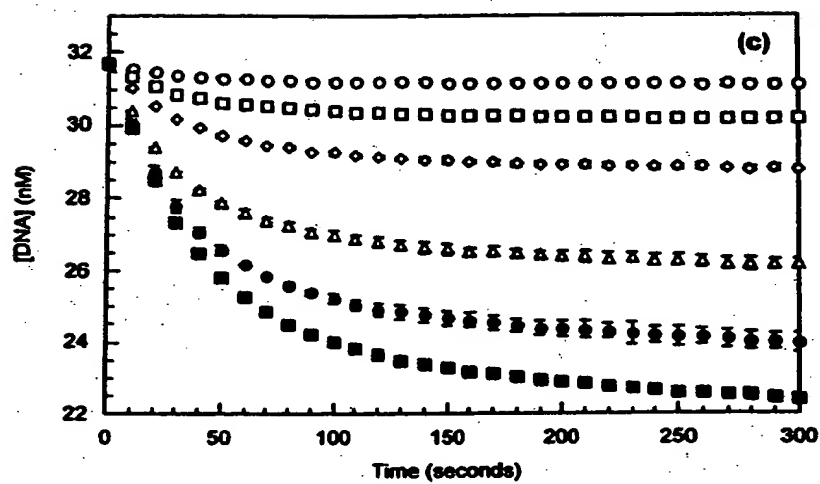


Figure 5C



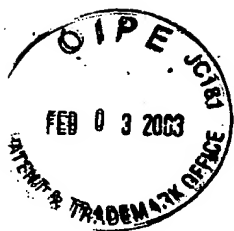
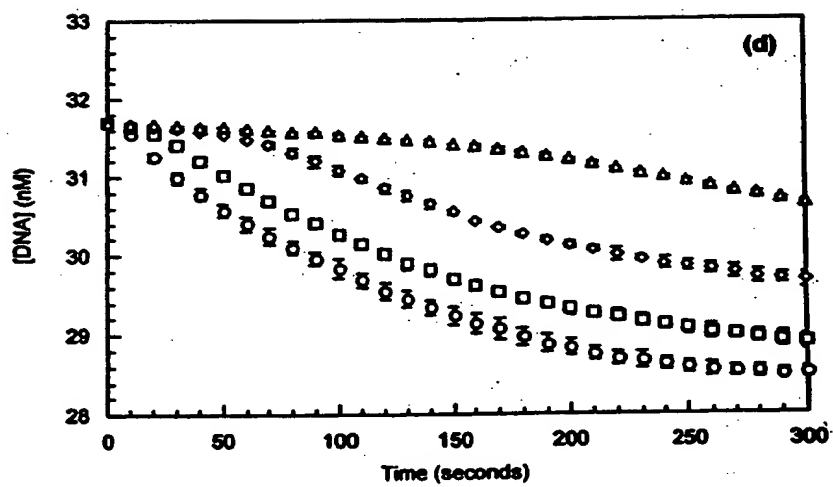


Figure 5D





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Figure 6A

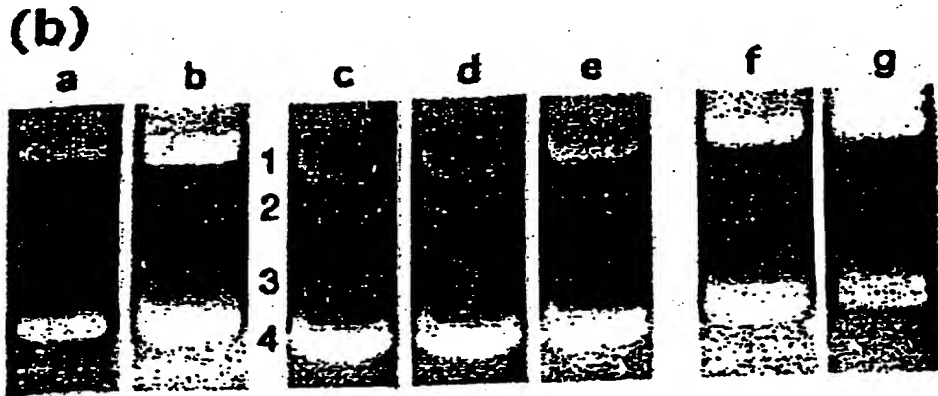
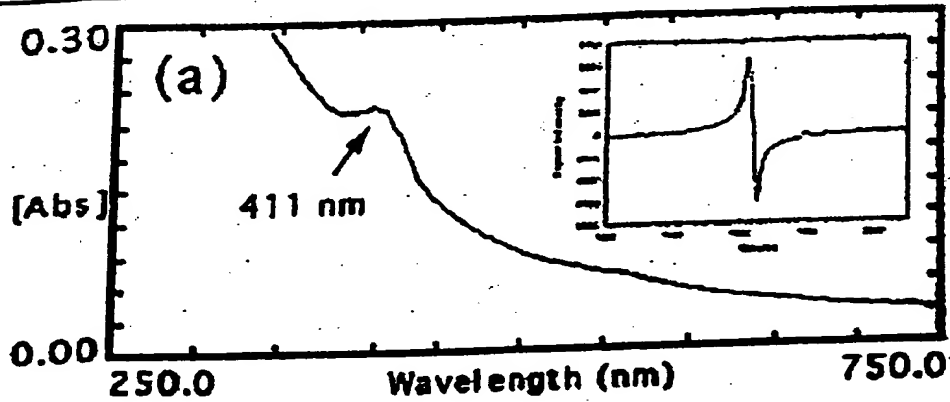


Figure 6B



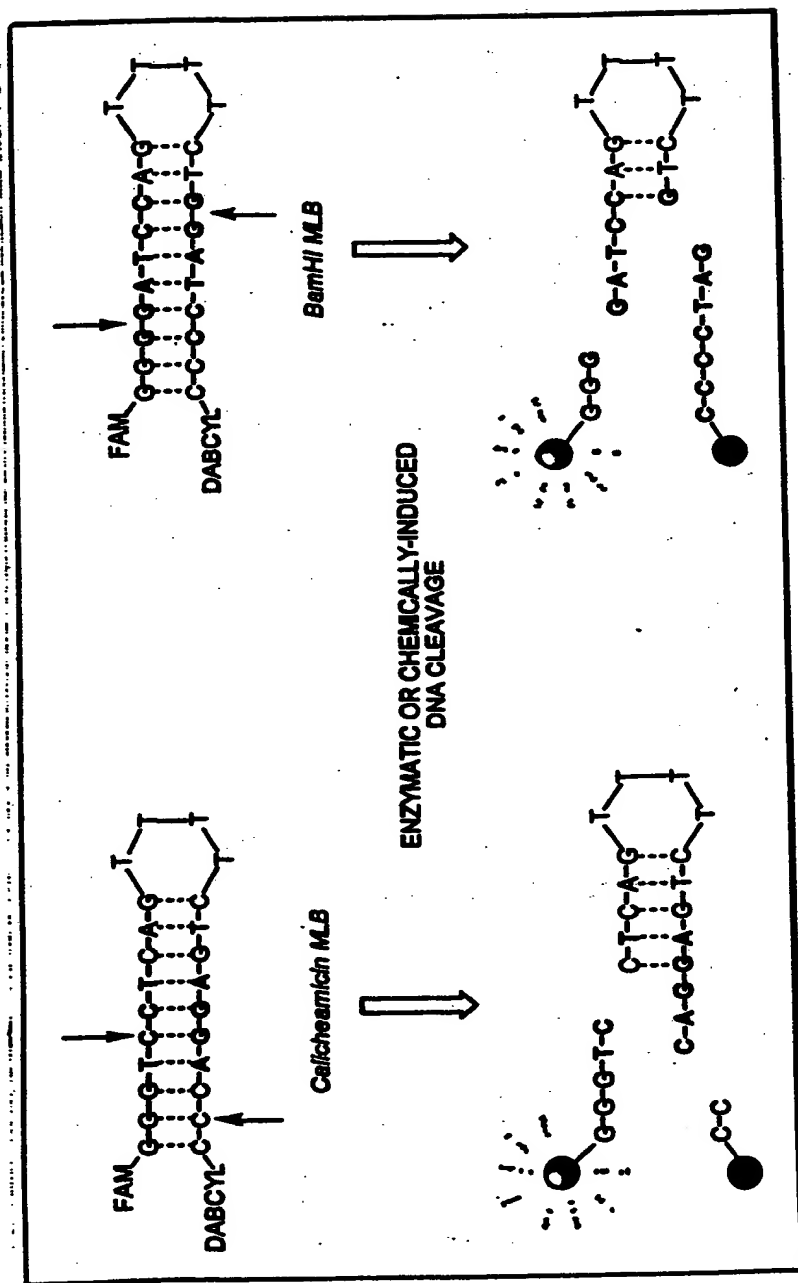


Figure 7



CalC (nmol)

0.0      1.3      2.6      3.9      5.2

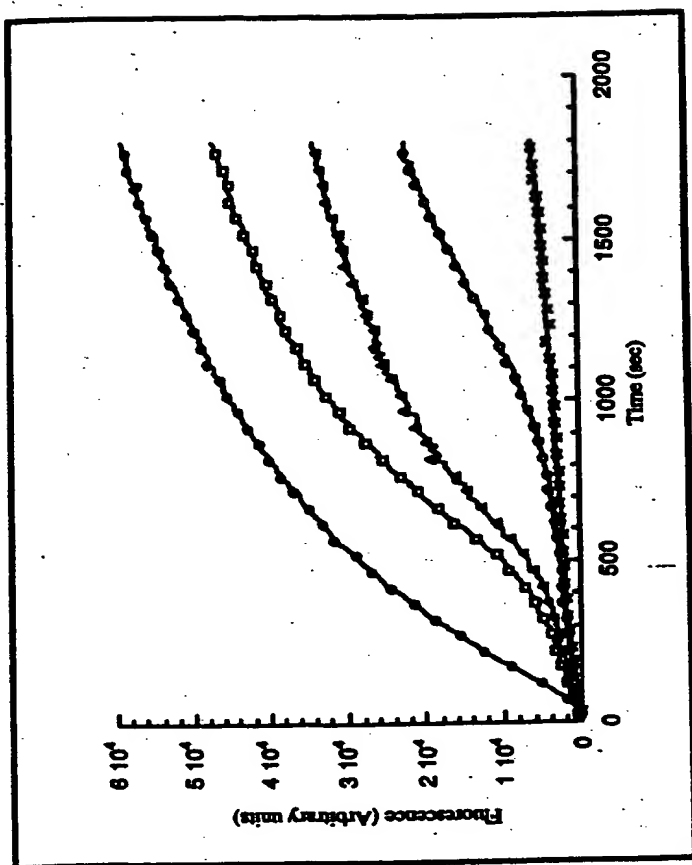


Figure 8



Table 1. A comparison of cleavage efficiencies.

Agent		$V_{max}$ (nM sec <sup>-1</sup> )	Turnover (sec <sup>-1</sup> ) <sup>a</sup>	Comparison to EDTA <sup>b</sup>
enzymatic	<i>BamHI</i>	$0.024 \pm 0.001$	0.007 <sup>c</sup>	$4.8 \times 10^5$
	<i>Esperamicin A<sub>1</sub></i>	$0.007 \pm 0.001^d$	0.009	$6.1 \times 10^5$
	<i>Calicheamicin<sub>71</sub></i> <sup>f</sup>	$0.011 \pm 0.002^c$	0.007	$4.8 \times 10^5$
small	<i>Bleomycin</i>	$0.009 \pm 0.001^d$	0.001	$6.8 \times 10^4$
molecule	<i>Methidiumpropyl-EDTA</i>	$0.003 \pm 0.001^d$	$2.4 \times 10^{-5}$	$1.6 \times 10^3$
catalyzed	<i>Methidiumpropyl-EDTA</i>	$0.118 \pm 0.004^e$	0.002	$1.6 \times 10^3$
	<i>EDTA</i>	$0.002 \pm 0.001^e$	$1.5 \times 10^{-6}$	1.0

<sup>a</sup>defined as  $V_{max}/[Agent]$ ; <sup>b</sup>fold enhancement over EDTA turnover; <sup>c</sup>also known as  $k_{cat}$ ; <sup>d</sup> $[DNA]_{total} = 3.2$  nM; <sup>e</sup> $[DNA]_{total} = 32$  nM